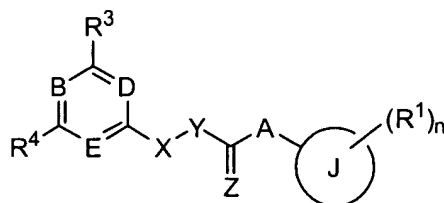


Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A compound according to Formula I,



or a pharmaceutically acceptable salt, hydrate, or prodrug thereof, wherein,

B, D, and E are each independently either =N- or =C(R²)-, provided at least one of B, D, and E is =N-;

at each occurrence, each of R¹, R², and R³ is independently selected from -H, halogen, trihalomethyl, -CN, -NO₂, -OR⁵, -N(R⁵)OR⁵, -ON(R⁵)R⁵, -N(R⁵)N(R⁵)R⁵, -N(R⁵)R⁵, -S(O)₀₋₂R⁵, -SO₂N(R⁵)R⁵, -CO₂R⁵, -C(O)N(R⁵)R⁵, -N(R⁵)SO₂R⁵, -N(R⁵)C(O)R⁵, -N(R⁵)CO₂R⁵, -C(O)R⁵, -C(=NR⁷)N(R⁵)R⁵, -C(=NR⁷)R⁵, -C(=NR⁷)OR⁵, -N(R⁵)C(=NR⁷)N(R⁵)R⁵, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclylalkyl, and optionally substituted arylalkyl;

n is zero to five;

R⁴ is selected from -H, halogen, -CN, -NO₂, -N(R⁵)OR⁵, -ON(R⁵)R⁵, -N(R⁵)N(R⁵)R⁵, -OR⁵, -N(R⁵)R⁵, -S(O)₀₋₂R⁵, -SO₂N(R⁵)R⁵, -CO₂R⁵, -C(O)N(R⁵)R⁵, -N(R⁵)SO₂R⁵, -N(R⁵)C(O)R⁵, -N(R⁵)CO₂R⁵, -C(O)R⁵, -C(=NR⁷)N(R⁵)R⁵, -C(=NR⁷)R⁵, -C(=NR⁷)OR⁵, -N(R⁵)C(=NR⁷)N(R⁵)R⁵, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted heterocyclyl, optionally substituted heterocyclylalkyl, and optionally substituted arylalkyl;

R^2 and R^3 , together with the atom or atoms to which they are attached, can combine to form a three- to seven-membered optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted cycloalkyl;

R^2 and R^4 , together with the atom or atoms to which they are attached, can combine to form a three- to seven-membered optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted cycloalkyl;

each R^5 is independently selected from -H, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted lower arylalkyl, optionally substituted heterocyclyl, optionally substituted lower heterocyclylalkyl, and a single bond to an atom of R^1 ;

two of R^5 , together with the atom or respective atoms to which they are attached, can combine to form an optionally substituted three- to seven-membered heterocyclic;

R^5 and R^6 , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

R^5 and R^7 , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

each of X and Y is independently selected from $-C(=O)-$, $-C(R^6)R^6-$, $-O-$, $-N(R^5)-$, $-C(=NR^7)-$, and $-S(O)_{0-2}-$; provided when X is $-O-$ or $-N(R^5)-$, then Y cannot be $-C(H)R^{6a}-$, where R^{6a} is $-C(R^{20})(R^{21})R^{22}$ wherein at least one of R^{20} , R^{21} and R^{22} is selected from phenyl, naphthyl, cyclohexyl, dihydronaphthyl tetrahydronaphthyl, and a five- to six-membered heteroaryl, each optionally substituted;

or X and Y can combine to form either $-C(R^6)=C(R^6)-$ or $-C\equiv C-$;

Z is selected from O, S, and a double bond to an atom of R^1 ;

A is either $-N(R^5)-$ or a single bond;

each R^6 is independently selected from -H, halogen, trihalomethyl, -CN, $-NO_2$, $-NH_2$, $-OR^5$, $-N(R^5)R^5$, $-S(O)_{0-2}R^5$, $-SO_2N(R^5)R^5$, $-CO_2R^5$, $-C(O)N(R^5)R^5$, $-N(R^5)SO_2R^5$, $-N(R^5)C(O)R^5$, $-N(R^5)CO_2R^5$, $-C(O)R^5$, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted

heterocyclylalkyl, optionally substituted arylalkyl, and a single bond to an atom of R^2 of D or E when said either D or E is $=C(R^2)-$;

two of R^6 , together with the atom or atoms to which they are attached, can combine to form one of an optionally substituted three to seven-membered alicyclic, an optionally substituted three to seven-membered heteroalicyclic, and a double bond to an atom of R^2 of D or E when said either D or E is $=C(R^2)-$;

each R^7 is independently selected from -H, -CN, -NO₂, -N(R^5) R^5 , -OR⁵, -S(O)₀₋₂ R^5 , -SO₂N(R^5) R^5 , -CO₂ R^5 , optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, and a single bond to a carbon of J; and

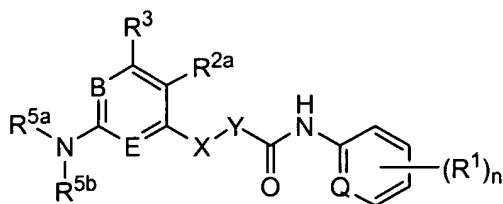
J is selected from an optionally substituted five- to ten-membered aryl and an optionally substituted five- to ten-membered heteroaryl;

provided the compound is not one of: 2-(2-amino-5-cyano-6-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-(3-trifluoromethyl-phenyl)-acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(butyloxy)phenyl]acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-1,3-benzothiazol-2-ylacetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(4-methyl-1,3-thiazol-2-yl)acetamide, 2-amino-4-{{2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl}thio}-6-(methylthio)pyrimidine-5-carbonitrile, 2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-1,3-thiazol-2-ylacetamide, 2-(5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 5-amino-2-methylsulfanyl-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(6-amino-5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 4,5-diamino-2-(2-methoxy-ethoxy)-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(5-cyano-6-phenyl-2-phenylcarbamoylmethylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, and a 2-(6-amino-3,5-dicyano-pyridin-2-ylsulfanyl)-N-phenyl-acetamide derivative.

2. (original) The compound according to claim 1, wherein J is either a six-membered aryl or a five- to six-membered heteroaryl.

3. (original) The compound according to claim 2, wherein D is $=C(R^2)-$.

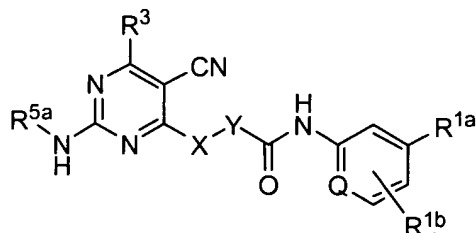
4. (original) The compound according to claim 3, wherein R^4 is $-N(R^5)R^5$.
5. (original) The compound according to claim 4, of Formula II,



II

wherein, R^1 , R^2 , R^3 , R^5 , n , B, E, X, and Y are as defined above; and Q is either =N- or =C(H)-.

6. (original) The compound according to claim 5, wherein R^{2a} is selected from halogen, -CN, $-C(=O)N(R^5)R^5$, $-CF_3$, $-CO_2R^5$, $-C(R^5)=C(R^5)R^5$, $-C\equiv C-R^5$, and $-NO_2$;
7. (original) The compound according to claim 6, wherein at least one of R^{5a} and R^{5b} is -H.
8. (original) The compound according to claim 7, wherein R^3 is selected from $-OR^5$, $-NR^5R^5$, and $-S(O)_{0-2}R^5$.
9. (original) The compound according to claim 8, wherein at least one of B and E is =N-.
10. (original) The compound according to claim 9, wherein R^1 is selected from halogen, $-OR^5$, $-NR^5R^5$, $-S(O)_{0-2}R^5$, $-NO_2$, perhaloalkyl, optionally substituted lower alkyl, optionally substituted aryl, and optionally substituted arylalkyl.
11. (original) The compound according to claim 10, wherein R^1 is selected from halogen, $-OR^5$, $-NR^5R^5$, $-S(O)_{0-1}R^5$, $-NO_2$, perhaloalkyl, and optionally substituted lower alkyl.
12. (original) The compound according to claim 11, wherein A is $-N(R^5)-$.
13. (original) The compound according to claim 12, of Formula III,



III

wherein, R^3 , R^5 , X, Y, and Q are as defined above; R^{1a} is selected from halogen, lower perfluoroalkyl, $-\text{NO}_2$, $-\text{OR}^5$, and optionally substituted C_{1-4} alkyl; and R^{1b} is selected from halogen, $-\text{OR}^5$, $-\text{N}(\text{R}^5)\text{R}^5$, $-\text{SR}^5$, perfluoroalkyl, and optionally substituted lower alkyl.

14. (original) The compound according to claim 13, wherein R^{1a} is selected from $-\text{NO}_2$, halogen, perfluoroalkyl, haloalkyl, optionally substituted C_{1-2} alkyl, and optionally substituted $-\text{O}-\text{C}_{1-2}$ alkyl.

15. (original) The compound according to claim 14, wherein R^3 is selected from optionally substituted $-\text{O}-\text{C}_{1-4}$ alkyl, $-\text{O}-\text{C}_{1-4}$ perfluoroalkyl, optionally substituted $-\text{N}(\text{H})\text{C}_{1-4}$ alkyl, optionally substituted $-\text{N}(\text{C}_{1-4}\text{alkyl})\text{C}_{1-4}\text{alkyl}$, optionally substituted $-\text{S}(\text{O})_{0-2}-\text{C}_{1-4}\text{alkyl}$, and optionally substituted $-\text{S}(\text{O})_{0-2}-\text{C}_{1-4}$ perfluoroalkyl.

16. (original) The compound according to claim 15, wherein Y is either $-\text{N}(\text{H})-$ or $-\text{C}(\text{R}^6)\text{R}^6-$.

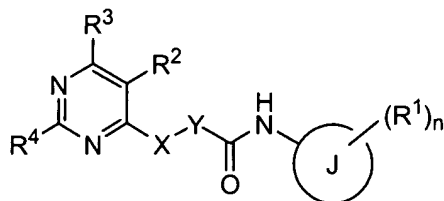
17. (original) The compound according to claim 16, wherein X is selected from $-\text{O}-$, $-\text{N}(\text{R}^5)-$ and $-\text{S}-$.

18. (original) The compound according to claim 17, wherein Y is $-\text{C}(\text{R}^6)\text{R}^6-$; wherein each R^6 is independently selected from $-\text{H}$, halogen, trihalomethyl, $-\text{NH}_2$, optionally substituted $-\text{O}-\text{C}_{1-4}$ alkyl, optionally substituted $-\text{N}(\text{H})\text{C}_{1-4}$ alkyl, optionally substituted $-\text{S}-\text{C}_{1-4}$ alkyl, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl.

19. (original) The compound according to claim 18, wherein Y is $-\text{C}(\text{H})\text{R}^6-$; wherein R^6 is independently selected from $-\text{H}$, halogen, trihalomethyl, $-\text{NH}_2$, optionally substituted $-\text{O}-\text{C}_{1-4}$ alkyl, optionally substituted $-\text{N}(\text{H})\text{C}_{1-4}$ alkyl, optionally substituted $-\text{S}-\text{C}_{1-4}$ alkyl, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl.

20. (original) The compound according to claim 19, wherein Q is $=\text{C}(\text{H})-$.

21. (original) A compound according to Formula IV,



IV

or a pharmaceutically acceptable salt, hydrate, or prodrug thereof, wherein,

R^1 is selected from halogen, $-OR^5$, $-N(R^5)R^5$, $-S(O)_{0-2}R^5$, $-NO_2$, $-C(O)R^5$, perhaloalkyl, optionally substituted lower alkyl, optionally substituted aryl, and optionally substituted arylalkyl.

n is zero to five;

R^2 is selected from halogen, $-CN$, $-C(=O)N(R^5)R^5$, $-CF_3$, $-CO_2R^5$, $-C(R^5)=C(R^5)R^5$, $-C\equiv C-R^5$, and $-NO_2$;

R^3 is selected from $-H$, halogen, trihalomethyl, $-CN$, $-NO_2$, $-OR^5$, $-N(R^5)OR^5$, $-ON(R^5)R^5$, $-N(R^5)N(R^5)R^5$, $-N(R^5)R^5$, $-S(O)_{0-2}R^5$, $-SO_2N(R^5)R^5$, $-CO_2R^5$, $-C(O)N(R^5)R^5$, $-N(R^5)SO_2R^5$, $-N(R^5)C(O)R^5$, $-N(R^5)CO_2R^5$, $-C(O)R^5$, $-C(=NR^7)N(R^5)R^5$, $-C(=NR^7)R^5$, $-C(=NR^7)OR^5$, $-N(R^5)C(=NR^7)N(R^5)R^5$, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclalkyl, and optionally substituted arylalkyl;

R^4 is selected from $-CN$, halogen, $-NO_2$, $-N(R^5)OR^5$, $-ON(R^5)R^5$, $-N(R^5)N(R^5)R^5$, $-OR^5$, $-N(R^5)R^5$, $-SO_2N(R^5)R^5$, $-C(O)N(R^5)R^5$, $-C(=NR^7)N(R^5)R^5$, $-C(=NR^7)R^5$, $-C(=NR^7)OR^5$, $-N(R^5)C(=NR^7)N(R^5)R^5$, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclalkyl;

each R^5 is independently selected from $-H$, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted lower arylalkyl, optionally substituted heterocyclyl, and optionally substituted lower heterocyclalkyl;

two of R^5 , together with the atom or respective atoms to which they are attached, can combine to form an optionally substituted three- to seven-membered heterocyclic;

R^5 and R^6 , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

R^5 and R^7 , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

each of X and Y is independently selected from $-C(=O)-$, $-C(R^6)R^6-$, $-O-$, $-N(R^5)-$, $-C(=NR^7)-$, and $-S(O)_{0-2}-$; provided when X is $-O-$ or $-N(R^5)-$, then Y cannot be $-C(H)R^{6a}-$, where R^{6a} is $-C(R^{20})(R^{21})R^{22}$ wherein at least one of R^{20} , R^{21} and R^{22} is selected from phenyl, naphthyl, cyclohexyl, dihydronaphthyl tetrahydronaphthyl, and a five- to six-membered heteroaryl, each optionally substituted;

or X and Y can combine to form either $-C(R^6)=C(R^6)-$ or $-C\equiv C-$;

each R^6 is independently selected from $-H$, halogen, trihalomethyl, $-CN$, $-NO_2$, $-NH_2$, $-OR^5$, $-N(R^5)R^5$, $-S(O)_{0-2}R^5$, $-SO_2N(R^5)R^5$, $-CO_2R^5$, $-C(O)N(R^5)R^5$, $-N(R^5)SO_2R^5$, $-N(R^5)C(O)R^5$, $-N(R^5)CO_2R^5$, $-C(O)R^5$, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclalkyl, optionally substituted arylalkyl, and a single bond to an atom of R^1 ;

two of R^6 , together with the atom or atoms to which they are attached, can combine to form either an optionally substituted three to seven-membered alicyclic or an optionally substituted three to seven-membered heteroalicyclic;

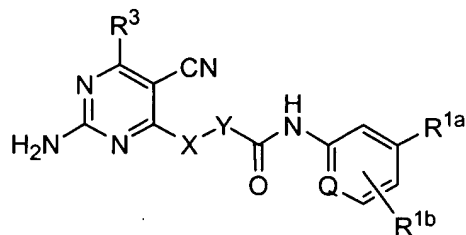
each R^7 is independently selected from $-H$, $-CN$, $-NO_2$, $-N(R^5)R^5$, $-OR^5$, $-S(O)_{0-2}R^5$, $-SO_2N(R^5)R^5$, $-CO_2R^5$, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, and a single bond to a carbon of J; and

J is selected from an optionally substituted five- to ten-membered aryl and an optionally substituted five- to ten-membered heteroaryl;

provided the compound is not one of: 2-(2-amino-5-cyano-6-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-(3-trifluoromethyl-phenyl)-acetamide, 2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[3-(butyloxy)phenyl]acetamide, 2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-1,3-benzothiazol-2-ylacetamide, 2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide, 2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-(4-methyl-1,3-thiazol-2-

yl)acetamide, 2-amino-4-{{2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl}thio}-6-(methylthio)pyrimidine-5-carbonitrile, 2-{{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-1,3-thiazol-2-yl}acetamide, 2-(5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 5-amino-2-methylsulfanyl-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(6-amino-5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 4,5-diamino-2-(2-methoxy-ethoxy)-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(5-cyano-6-phenyl-2-phenylcarbamoylmethylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, and a 2-(6-amino-3,5-dicyano-pyridin-2-ylsulfanyl)-N-phenyl-acetamide derivative.

22. (original) The compound according to claim 21, wherein R^4 is $-NR^{5a}R^{5b}$; wherein at least one of R^{5a} and R^{5b} is -H.
23. (original) The compound according to claim 22, wherein X is selected from -O-, -N(R^5)-, and -S(O)₀₋₂-.
24. (original) The compound according to claim 23, wherein Y is either -C(R^6) R^6 - or -N(R^5)-.
25. (original) The compound according to claim 24, wherein J is either phenyl or pyridyl.
26. (original) The compound according to claim 25, wherein R^4 is -NH₂.
27. (original) The compound according to claim 26, wherein at least one of R^1 is selected from halo, -NO₂, -OR⁵, perfluoroalkyl, haloalkyl, and optionally substituted C₁₋₄alkyl.
28. (original) The compound according to claim 27, of Formula V;



V

wherein R^1 , R^3 , X, and Y are as defined above; and Q is either =N- or =C(H)-.

29. (original) The compound according to claim 28, wherein R^{1a} is selected from halo, lower perfluoroalkyl, $-NO_2$, optionally substituted $-O-C_{1-4}alkyl$, and optionally substituted $C_{1-4}alkyl$.

30. (original) The compound according to claim 29, wherein R^3 is selected from optionally substituted $-O-C_{1-4}alkyl$, $-O-C_{1-4}perfluoroalkyl$, optionally substituted $-N(H)C_{1-4}alkyl$, optionally substituted $-N(C_{1-4}alkyl)C_{1-4}alkyl$, optionally substituted $-S(O)_{0-2}-C_{1-4}alkyl$, and optionally substituted $-S(O)_{0-2}-C_{1-4}perfluoroalkyl$.

31. (original) The compound according to claim 30, wherein Y is $-C(R^6)R^6-$; wherein each R^6 is independently selected from $-H$, halogen, trihalomethyl, $-NH_2$, optionally substituted $-O-C_{1-4}alkyl$, optionally substituted $-N(H)C_{1-4}alkyl$, optionally substituted $-S-C_{1-4}alkyl$, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl.

32. (original) The compound according to claim 31, wherein Y is $-C(H)R^6-$; wherein R^6 is independently selected from $-H$, halogen, trihalomethyl, $-NH_2$, optionally substituted $-O-C_{1-4}alkyl$, optionally substituted $-N(H)C_{1-4}alkyl$, optionally substituted $-S-C_{1-4}alkyl$, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclylalkyl.

33. (original) The compound according to claim 32, wherein Q is $=C(H)-$.

34. (original) The compound according to claim 1, selected from Table 3.

Table 3

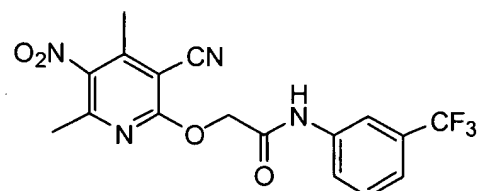
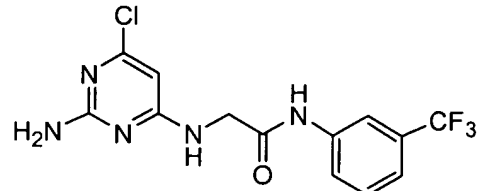
Entry	Name	Structure
1	2-[(3-cyano-4,6-dimethyl-5-nitropyridin-2-yl)oxy]-N-[3-(trifluoromethyl)phenyl]acetamide	
2	N-2-(2-amino-6-chloropyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
3	[2-amino-6-(methylthio)pyrimidin-4-yl]methyl [3-(trifluoromethyl)phenyl]carbamate	
4	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[5-(trifluoromethyl)pyridin-2-yl]acetamide	
5	N-2-[2-amino-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
6	2-{{2-amino-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
7	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(methoxy)phenyl]acetamide	
8	N-2-(2-amino-6-morpholin-4-ylpyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
9	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(4-chlorophenyl)acetamide	
10	2-{{2-amino-6-(1H-1,2,3-benzotriazol-1-yloxy)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
11	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(3-chlorophenyl)acetamide	
12	N-2-(2-amino-6-chloro-5-formylpyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
13	N-2-[2-amino-5-formyl-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
14	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
15	2-[(2-amino-6-chloropyrimidin-4-yl)thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
16	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-methyl-N-[3-(trifluoromethyl)phenyl]acetamide	
17	N-2-[4-amino-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
18	N-2-[4-(dimethylamino)-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
19	N-2-[4-(methylamino)-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
20	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
21	'2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
22	'2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(butyloxy)phenyl]acetamide	
23	'2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-1,3-benzothiazol-2-ylacetamide	
24	'2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide	
25	'2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(4-methyl-1,3-thiazol-2-yl)acetamide	
26	'2-amino-4-{{2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl}thio}-6-(methylthio)pyrimidine-5-carbonitrile	
27	'2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-1,3-thiazol-2-ylacetamide	

Table 3

Entry	Name	Structure
28	ethyl 5-[(2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl)thio} acetyl)amino]-4-cyano-3-methylthiophene-2-carboxylate	
29	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-pyridin-2-ylacetamide	
30	2-amino-4-({2-[2,5-bis(methoxy)phenyl]-2-oxoethyl} thio)-6-(methylthio)pyrimidine-5-carbonitrile	
31	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[4-fluoro-3-(trifluoromethyl)phenyl]acetamide	
32	2-[(2,6-diaminopyrimidin-4-yl)thio]-N-[4-fluoro-3-(trifluoromethyl)phenyl]acetamide	
33	2-[(2,6-diaminopyrimidin-4-yl)thio]-N-[3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
34	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[4-chloro-3-(trifluoromethyl)phenyl]acetamide	
35	2-amino-4-(methylthio)-6-({2-oxo-1-[3-(trifluoromethyl)phenyl]pyrrolidin-3-yl}thio)pyrimidine-5-carbonitrile	
36	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[6-(trifluoromethyl)pyridin-2-yl]acetamide	
37	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[4-(trifluoromethyl)pyridin-2-yl]acetamide	
38	{6-(methylthio)-2-[(phenylmethyl)amino]pyrimidin-4-yl}methyl [3-(trifluoromethyl)phenyl]carbamate	
39	[6-(methylamino)-2-(methylthio)pyrimidin-4-yl]methyl [3-(trifluoromethyl)phenyl]carbamate	

Table 3

Entry	Name	Structure
40	{2-(methylthio)-6-[(phenylmethyl)amino]pyrimidin-4-yl} methyl [3-(trifluoromethyl)phenyl]carbamate	
41	2-{[2-(acetylamino)-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
42	(2S)-2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-N-[3-(trifluoromethyl)phenyl]propanamide	
43	2-[(2-amino-6-chloro-5-formylpyrimidin-4-yl)thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
44	N-2-[2-amino-5-(hydroxymethyl)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
45	2-{[2-amino-5-formyl-6-(methylamino)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
46	2-{{2-amino-5-formyl-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
47	2-{{4-amino-6-(methylthio)-1,3,5-triazin-2-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
48	2-{{2-amino-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
49	2-amino-4-(methylthio)-6-{{2-oxo-2-(3-oxo-3,4-dihydro-2H-1,4-benzoxazin-6-yl)ethyl}thio}pyrimidine-5-carbonitrile	
50	2-[(2-amino-6-chloro-5-formylpyrimidin-4-yl)oxy]-N-[3-(trifluoromethyl)phenyl]acetamide	
51	2-{{2-amino-5-formyl-6-(phenylthio)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
52	2-{{2-amino-5-(hydroxymethyl)-6-(phenylthio)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
53	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[2-methyl-3-(trifluoromethyl)phenyl]acetamide	
54	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[2-(methoxy)-5-(trifluoromethyl)phenyl]acetamide	
55	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[2-chloro-5-(trifluoromethyl)phenyl]acetamide	
56	2-{{2-amino-5-(hydroxymethyl)-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
57	N-2-(6-amino-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
58	N-2-[2-amino-5-[(E)-hydrazonomethyl]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
59	N-2-[2-amino-5-[(E)-(hydroxyimino)methyl]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
60	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
61	2-{{2-amino-5-cyano-6-(methylamino)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
62	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[2-amino-5-(trifluoromethyl)phenyl]acetamide	
63	2-amino-4-(methylthio)-6-({[6-(trifluoromethyl)-1H-benzimidazol-2-yl]methyl}thio)pyrimidine-5-carbonitrile	
64	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	

Table 3

Entry	Name	Structure
65	N-2-[5-cyano-2-(methylthio)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
66	2-{[2-amino-5-cyano-6-(dimethylamino)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
67	(S)-1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]prolinamide	
68	(2R)-2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-N-[3-(trifluoromethyl)phenyl]propanamide	
69	1-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-N-[3-(trifluoromethyl)phenyl]cyclopropane carboxamide	
70	(2S)-2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-3-methyl-N-[3-(trifluoromethyl)phenyl]butanamide	

Table 3

Entry	Name	Structure
71	N-2-[5-cyano-2-(dimethylamino)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
72	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]glycinamide	
73	1-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}amino}-N-[3-(trifluoromethyl)phenyl]cyclopropane carboxamide	
74	N-2-[2-amino-5-cyano-6-(methylsulfinyl)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
75	N-2-[2-amino-5-cyano-6-(methylsulfonyl)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
76	N-2-(5-cyano-2-morpholin-4-ylpyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
77	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[3,5-bis(trifluoromethyl)phenyl]acetamide	
78	N-2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
79	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[2-(methyloxy)-5-(trifluoromethyl)phenyl]-L-alaninamide	
80	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[2-chloro-5-(trifluoromethyl)phenyl]-L-alaninamide	
81	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-methyl-N-[3-(trifluoromethyl)phenyl]alaninamide	
82	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-{3-[(4-methylpiperazin-1-yl)carbonyl]phenyl}-L-alaninamide	

Table 3

Entry	Name	Structure
83	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-alaninamide	
84	2-[(2-amino-5-cyano-6-morpholin-4-yl)pyrimidin-4-ylthio]-N-[3-(trifluoromethyl)phenyl]acetamide	
85	(R)-1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]prolinamide	
86	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
87	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-[2-(dimethylamino)ethyl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
88	N-2-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
89	N-2-(2,6-diamino-5-cyanopyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
90	N-2-(2-amino-5-cyanopyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
91	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
92	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-{[2-(diethylamino)ethyl]oxy}phenyl)-L-alaninamide	
93	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-1,2-dimethyl-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
94	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-amino-5-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
95	ethyl [1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-({[3-(trifluoromethyl)phenyl]amino}carbonyl)hydrazino]acetate	
96	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-methyl-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
97	3,5-diamino-4,6-dimethyl-N-[3-(trifluoromethyl)phenyl]furo[2,3-b]pyridine-2-carboxamide	
98	3-amino-4,6-dimethyl-5-nitro-N-[3-(trifluoromethyl)phenyl]furo[2,3-b]pyridine-2-carboxamide	
99	N-2-(2-amino-5-cyano-6-hydroxypyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
100	N-2-[5-cyano-2-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
101	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-(tetrahydro-2H-pyran-4-ylmethyl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
102	N-2-(2-amino-5-cyano-6-{[2-(dimethylamino)ethyl]oxy}pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
103	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-6-[[[1,1-dimethylethyl]oxy]carbonyl]-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
104	2-amino-4-(methylthio)-6-(methyl{(1S)-1-[6-(trifluoromethyl)-1H-benzimidazol-2-yl]ethyl}amino)pyrimidine-5-carbonitrile	
105	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-[2-(tetrahydro-2H-pyran-4-yl)ethyl]-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
106	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-[(2-(diethylamino)ethyl)amino]-5-(trifluoromethyl)phenyl]-L-alaninamide	
107	2-amino-4-(methylthio)-6-(((1S)-1-[6-(trifluoromethyl)-1H-benzimidazol-2-yl]ethyl)amino)pyrimidine-5-carbonitrile	
108	2-{2-amino-5-cyano-6-[1-(3-trifluoromethyl-phenylcarbamoyl)-1S-ethylamino]-pyrimidin-4-ylamino}-N-(3-trifluoromethyl-phenyl)-2S-propionamide	
109	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-(3-methylphenyl)glycinamide	
110	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-(1-methylethyl)phenyl]glycinamide	
111	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-5-[imino(nitroamino)methyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	

Table 3

Entry	Name	Structure
112	methyl 3-((N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl)amino)-5-(trifluoromethyl)benzoate	
113	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-nitrophenyl)-L-alaninamide	
114	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
115	N-2-[2-amino-5-cyano-6-(propyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
116	N-2-[5-cyano-2-{{2-(methyloxy)ethyl}amino}-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
117	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-argininamide	

Table 3

Entry	Name	Structure
118	N-2-[2-amino-5-cyano-6-(methylsulfinyl)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
119	N-2-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
120	N-2-[2-amino-5-cyano-6-(propyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
121	N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
122	N-2-[2-amino-5-cyano-6-[(1-methylethyl)oxy]pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
123	N-5-acetyl-N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	

Table 3

Entry	Name	Structure
124	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-aminophenyl)-L-alaninamide	
125	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	
126	2-(methyloxy)ethyl ((4S)-4-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino}-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	
127	2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
128	1,1-dimethylethyl ((4S)-4-{[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino}-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	
129	N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	

Table 3

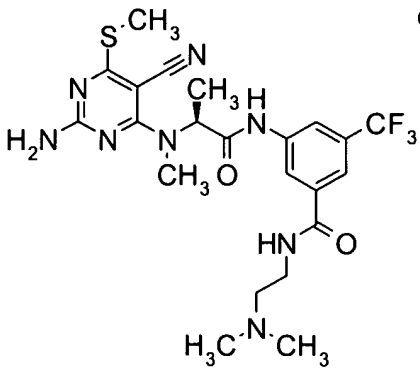
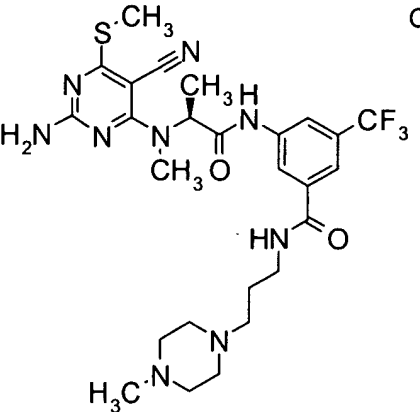
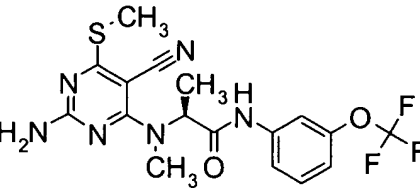
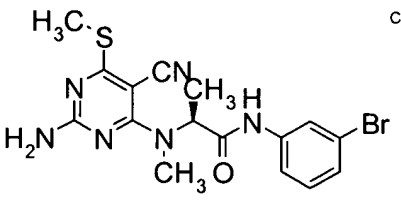
Entry	Name	Structure
130	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl}amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	 <p>Chiral</p>
131	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl}amino)-N-[3-(4-methylpiperazin-1-yl)propyl]-5-(trifluoromethyl)benzamide	 <p>Chiral</p>
132	N~2~-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~2~-methyl-N-{3-[(trifluoromethyl)oxy]phenyl}-L-alaninamide	 <p>Chiral</p>
133	N~2~-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-bromophenyl)-N~2~-methyl-L-alaninamide	 <p>Chiral</p>

Table 3

Entry	Name	Structure
134	N~2~-2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-{2-[(2-(dimethylamino)ethyl)oxy]-5-[(trifluoromethyl)oxy]phenyl}-N~2~-methyl-L-alaninamide	
135	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl}amino)-N-(2-morpholin-4-ylethyl)-5-(trifluoromethyl)benzamide	
136	N~2~-2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N~2~-methyl-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
137	N~2~-2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-[(2-(dimethylamino)ethyl)oxy]-5-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

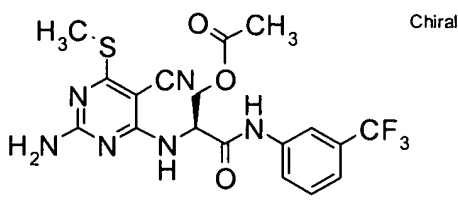
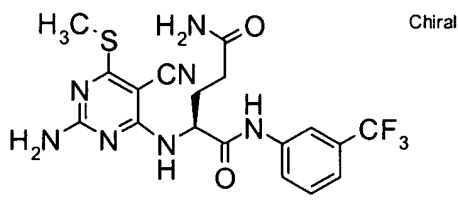
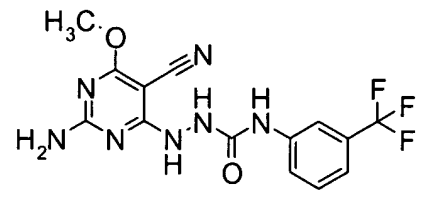
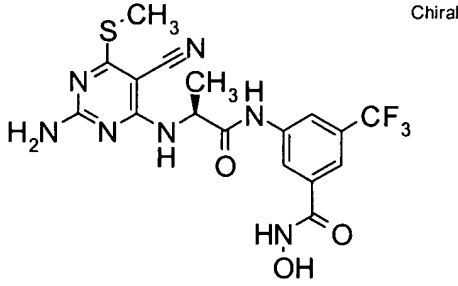
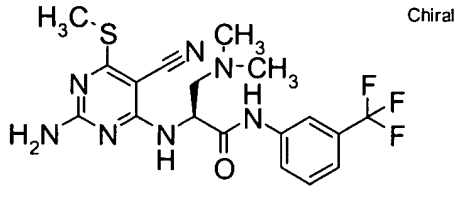
Entry	Name	Structure
138	(2S)-2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino]-3-oxo-3-[[3-(trifluoromethyl)phenyl]amino]propyl acetate	
139	N~2~-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~1~-[3-(trifluoromethyl)phenyl]-L-glutamamide	
140	2-[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
141	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-N-hydroxy-5-(trifluoromethyl)benzamide	
142	N~2~-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

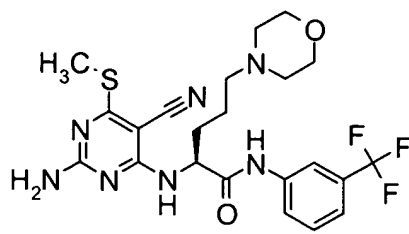
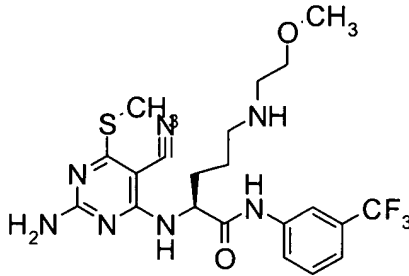
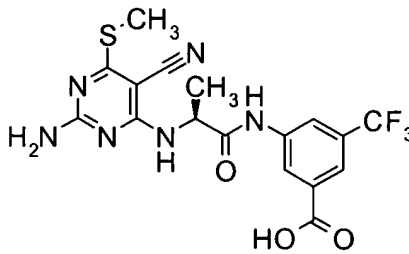
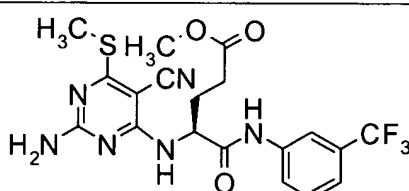
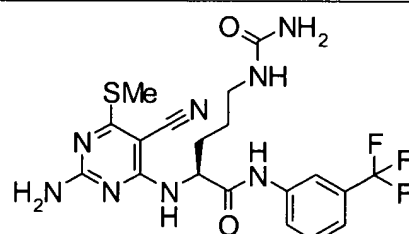
Entry	Name	Structure
143	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-5-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-norvalinamide	
144	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~5~- [2-(methyloxy)ethyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
145	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-5-(trifluoromethyl)benzoic acid	
146	methyl N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	
147	N~5~- (aminocarbonyl)-N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	

Table 3

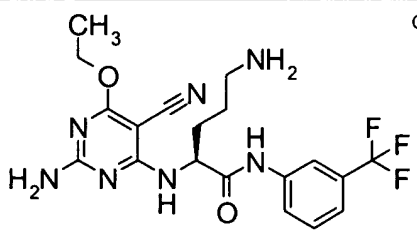
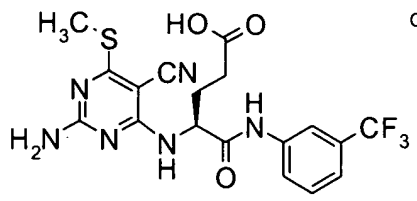
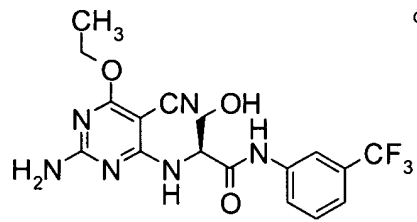
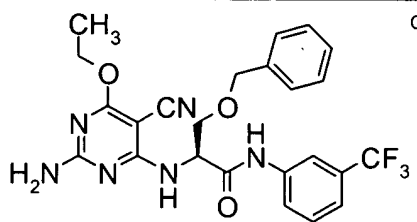
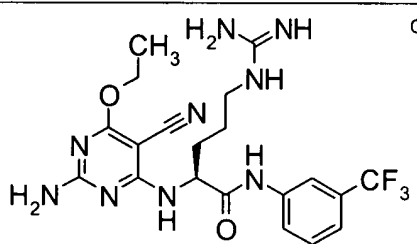
Entry	Name	Structure
148	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
149	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-α-glutamine	
150	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-serinamide	
151	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-O-(phenylmethyl)-N-[3-(trifluoromethyl)phenyl]-L-serinamide	
152	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-argininamide	

Table 3

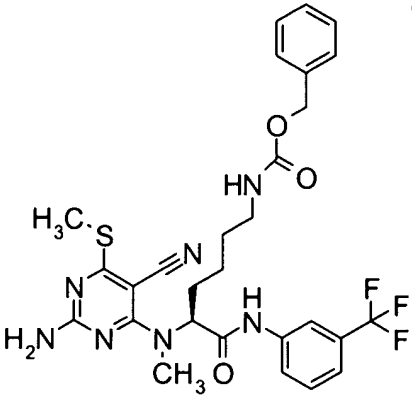
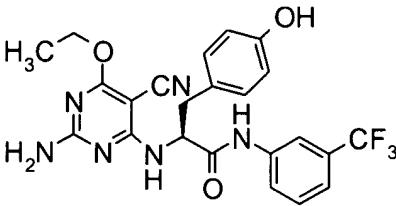
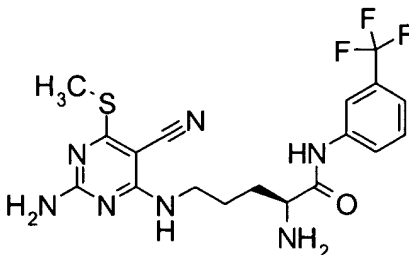
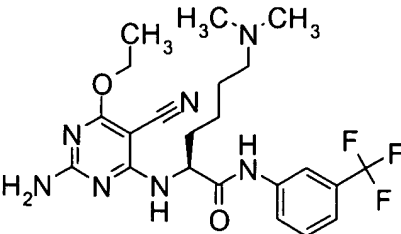
Entry	Name	Structure
153	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~2~-methyl-N~6~-~{[(phenylmethyl)oxy]carbonyl}-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	 <p>Chiral</p>
154	N~alpha~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-tyrosineamide	 <p>Chiral</p>
155	N~5~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithineamide	 <p>Chiral</p>
156	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N~6~-~N~6~-~dimethyl-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	 <p>Chiral</p>

Table 3

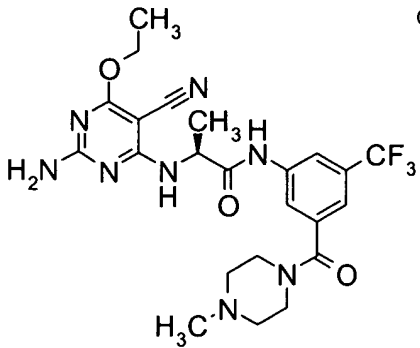
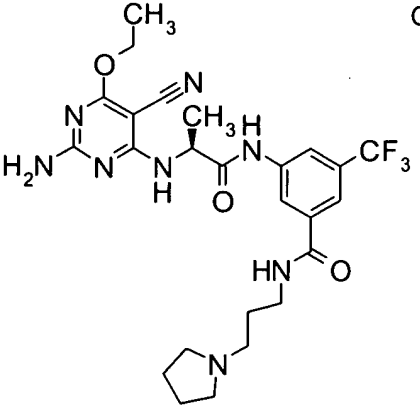
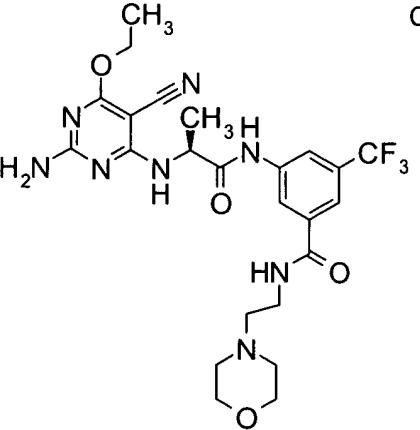
Entry	Name	Structure
157	N-2-~[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-[(4-methylpiperazin-1-yl)carbonyl]-5-(trifluoromethyl)phenyl]-L-alaninamide	 <p>Chiral</p>
158	3-({N-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-L-alanyl}amino)-N-(3-pyrrolidin-1-ylpropyl)-5-(trifluoromethyl)benzamide	 <p>Chiral</p>
159	3-({N-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-L-alanyl}amino)-N-(2-morpholin-4-ylethyl)-5-(trifluoromethyl)benzamide	 <p>Chiral</p>

Table 3

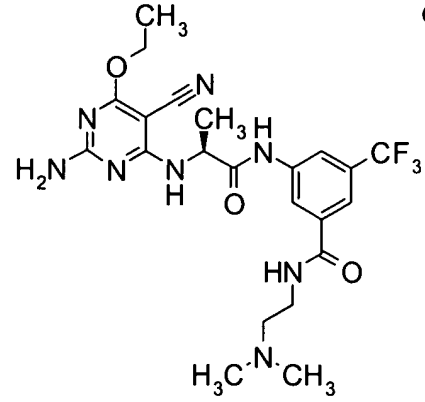
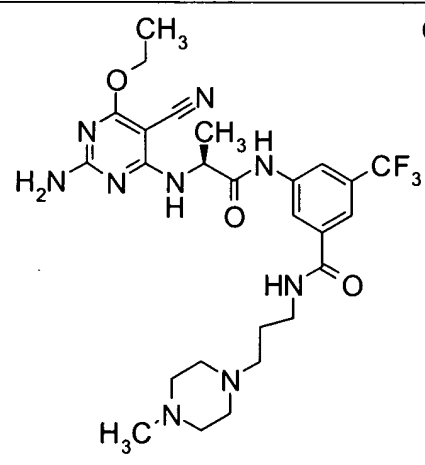
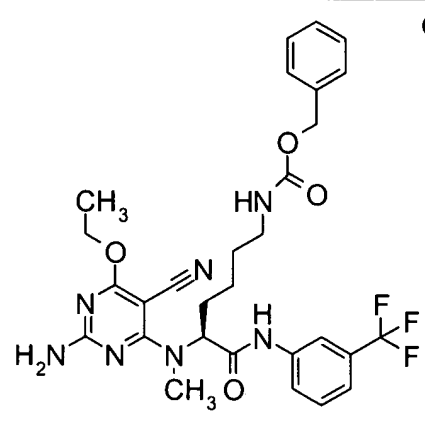
Entry	Name	Structure
160	3-({N-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-L-alanyl}amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	 <p>Chiral</p>
161	3-({N-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-L-alanyl}amino)-N-[3-(4-methylpiperazin-1-yl)propyl]-5-(trifluoromethyl)benzamide	 <p>Chiral</p>
162	N~2~-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N~2~-methyl-N~6~-{[(phenylmethyl)oxy]carbonyl}-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	 <p>Chiral</p>

Table 3

Entry	Name	Structure
163	1,1-dimethylethyl ((4S)-4-[[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	
164	(2S)-2-[[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino]-3-oxo-3-[[3-(trifluoromethyl)phenyl]amino]propyl acetate	
165	phenylmethyl N-2~-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	
166	N-2~,N-5~-diacetyl-N-2~-[2-(acetylamino)-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
167	2-(methoxy)ethyl ((4S)-4-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	

Table 3

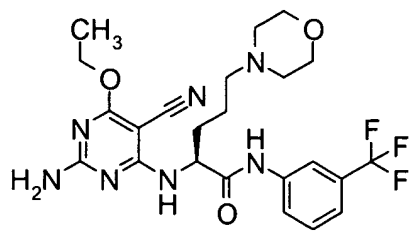
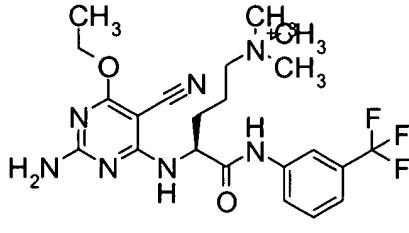
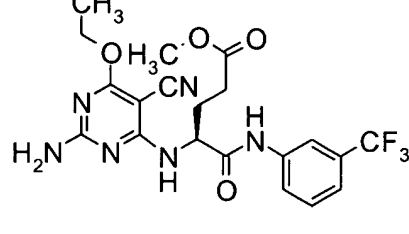
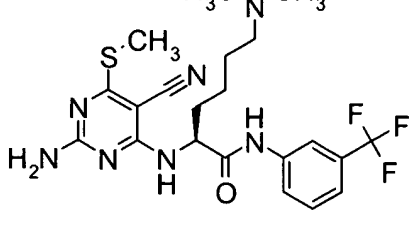
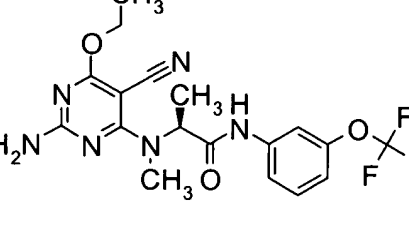
Entry	Name	Structure
168	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-5-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-norvalinamide	
169	N-((4S)-4-[[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)-N,N-dimethylmethanaminium	
170	Methyl N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	
171	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~6~,N~6~-dimethyl-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
172	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N~2~-methyl-N-{3-[(trifluoromethoxy)phenyl]}-L-alaninamide	

Table 3

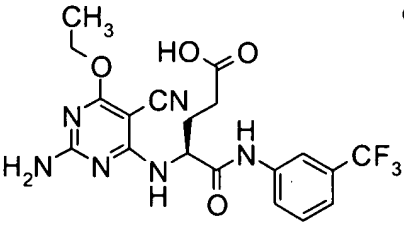
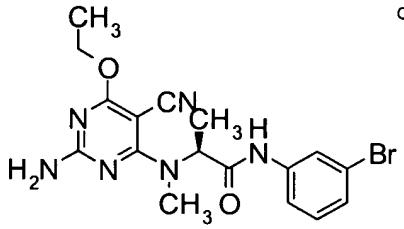
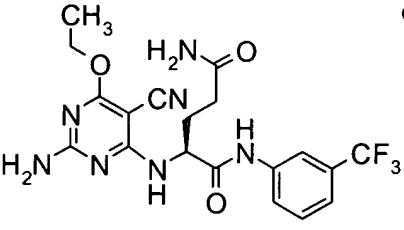
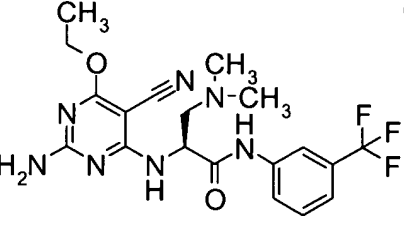
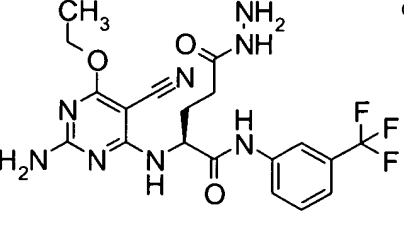
Entry	Name	Structure
173	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamine	
174	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-(3-bromophenyl)-N~2~-methyl-L-alaninamide	
175	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N~1~- [3-(trifluoromethyl)phenyl]-L-glutamamide	
176	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
177	Structure possibly contains amino acid derivative which is not supported in current version!	

Table 3

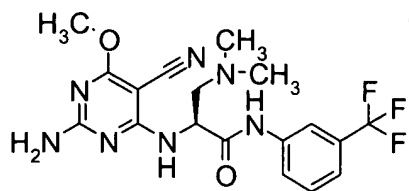
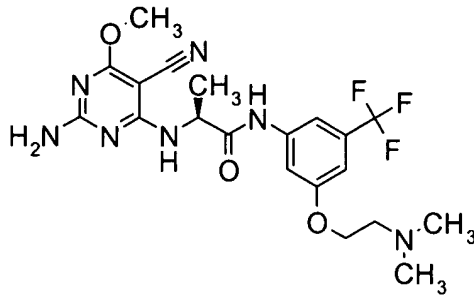
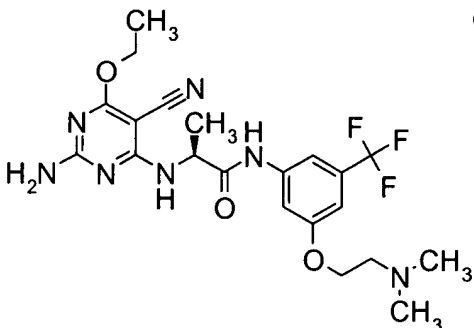
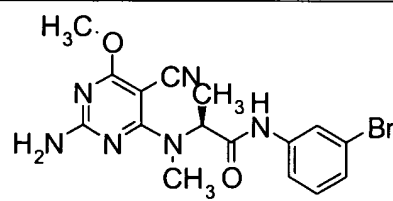
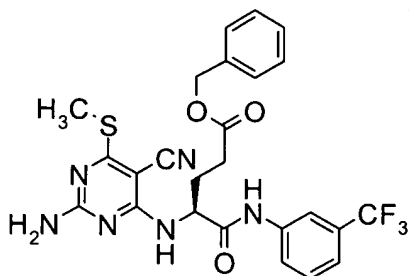
Entry	Name	Structure
178	N~2~- [2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
179	N~2~- [2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-N-[3-{{2-(dimethylamino)ethyl}oxy}-5-(trifluoromethyl)phenyl]-L-alaninamide	
180	N~2~- [2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-{{2-(dimethylamino)ethyl}oxy}-5-(trifluoromethyl)phenyl]-L-alaninamide	
181	N~2~- [2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-N-(3-bromophenyl)-N~2~-methyl-L-alaninamide	
182	phenylmethyl N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	

Table 3

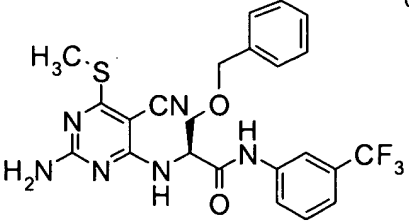
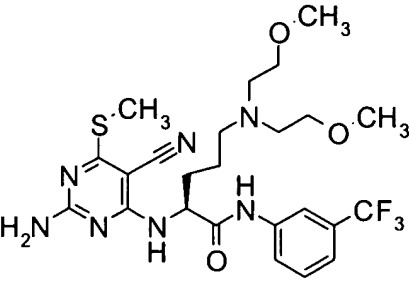
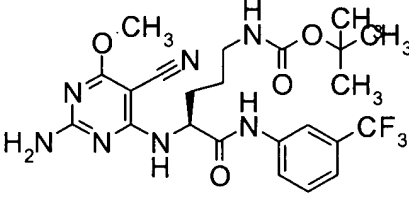
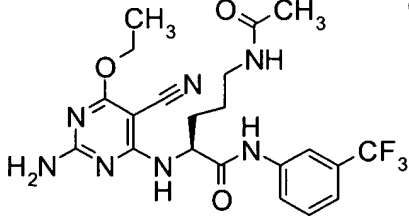
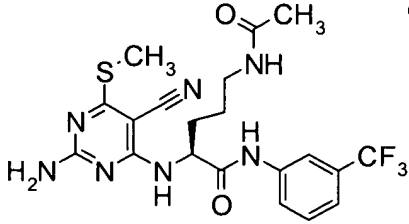
Entry	Name	Structure
183	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-O-(phenylmethyl)-N-[3-(trifluoromethyl)phenyl]-L-serinamide	
184	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~5~,N~5~-bis[2-(methoxy)ethyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
185	1,1-dimethylethyl ((4S)-4-[[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	
186	N~5~-acetyl-N~2~- [2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
187	N~5~-acetyl-N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	

Table 3

Entry	Name	Structure
188	N~2~- [2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N~2~-methyl-N-{3-[(trifluoromethyl)oxy]phenyl}-L-alaninamide	
189	methyl 3-({N-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-L-alanyl}amino)-5-(trifluoromethyl)benzoate	
190	3-({N-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-L-alanyl}amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	
191	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
192	N~2~- [2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

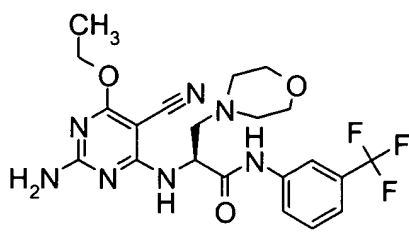
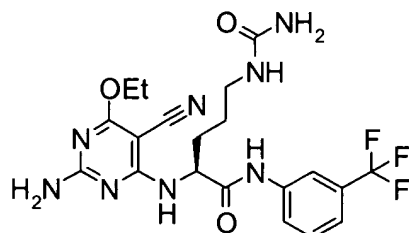
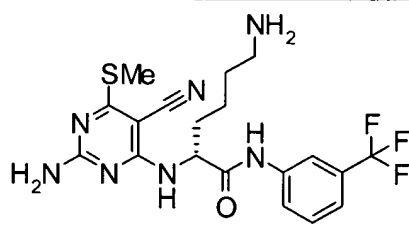
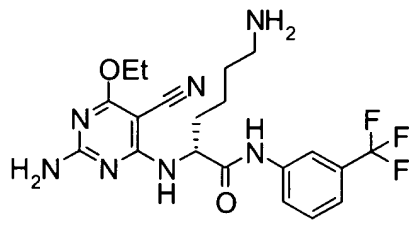
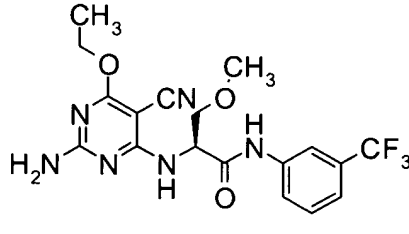
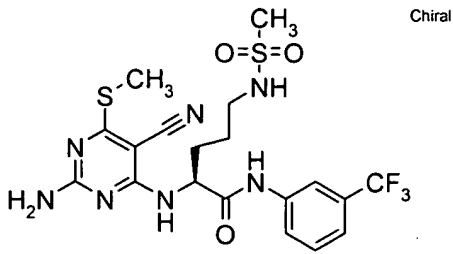
Entry	Name	Structure
193	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	 <p>Chiral</p>
194	N~5~- (aminocarbonyl)-N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	 <p>Chiral</p>
195	N~2~- [2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-lysineamide	 <p>Chiral</p>
196	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-lysineamide	 <p>Chiral</p>
197	N~2~- [2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-O-methyl-N-[3-(trifluoromethyl)phenyl]-L-serinamide	 <p>Chiral</p>

Table 3

Entry	Name	Structure
198	N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-5-(methylsulfonyl)-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	

35. (currently amended) A pharmaceutical composition comprising the compound according to ~~any one of claims 1—34~~claim 1 and a pharmaceutically acceptable carrier.

36. (currently amended) A metabolite of the compound or the pharmaceutical composition according to ~~any one of claims 1—35~~claim 1.

37. (currently amended) A method of modulating the *in vivo* activity of a kinase, the method comprising administering to a subject an effective amount of a composition comprising ~~at least one of: the a compound according to any of claims 1—34~~claim 1 and/or, ~~the pharmaceutical composition according to claim 35, a compound explicitly provided against in claim 1 or 21, and a pharmaceutical composition comprising a compound, the composition of which was, explicitly provided against in claim 1 or 21 and a pharmaceutically acceptable carrier.~~

38. (original) The method according to claim 37, wherein the kinase is p70S6K.

39. (original) The method according to claim 38, wherein modulating the *in vivo* activity of p70S6K comprises inhibition of p70S6K.

40. (currently amended) A method of treating diseases or disorders associated with uncontrolled, abnormal, and/or unwanted cellular activities, the method comprising administering, to a mammal in need thereof, a therapeutically effective amount of a composition comprising ~~at least one of: the a compound according to any of claims 1—34~~claim 1, ~~the pharmaceutical composition according to claim 35, and/or a compound, the~~

~~composition of which was, explicitly provided against in claim 1 or 21, and a pharmaceutical composition comprising a compound, the composition of which was, explicitly provided against in claim 1 or 21 and a pharmaceutically acceptable carrier.~~

41. (currently amended) A method of screening for modulator of a p70S6 kinase, the method comprising combining either a compound according to ~~any one of claims 1 — 34~~claim 1 or a compound, ~~the composition of which was, explicitly provided against in claim 1 or 21,~~ and at least one candidate agent and determining the effect of the candidate agent on the activity of said kinase.

42. (currently amended) A method of inhibiting proliferative activity in a cell, the method comprising administering an effective amount of: the compound according to ~~any of claims 1 — 34~~claim 1 and/or, ~~the pharmaceutical composition according to claim 35, a compound, the composition of which was, explicitly provided against in claim 1 or 21, and a pharmaceutical composition comprising a compound, the composition of which was, explicitly provided against in claim 1 or 21 and a pharmaceutically acceptable carrier.~~

43. (currently amended) A method of inhibiting abnormal metabolic activity in a cell, the method comprising administering an effective amount of: the compound according to ~~any of claims 1 — 34~~claim 1 and/or, ~~the pharmaceutical composition according to claim 35, a compound, the composition of which was, explicitly provided against in claim 1 or 21, and a pharmaceutical composition comprising a compound, the composition of which was, explicitly provided against in claim 1 or 21 and a pharmaceutically acceptable carrier.~~